

JOURNAL OF ANATOMY

CONDUCTED ON BEHALF OF THE ANATOMICAL SOCIETY
OF GREAT BRITAIN AND IRELAND BY

G. CAUSEY

R. E. COUPLAND

J. T. EAYRS

T. W. GLENISTER

E. G. GRAY

F. R. JOHNSON

J. D. LEVER

G. J. ROMANES

R. J. SCOTHORNE

D. BRYNMOR THOMAS

R. L. HOLMES (EDITOR)

VOLUME 107

JULY—NOVEMBER 1970

CAMBRIDGE

AT THE UNIVERSITY PRESS

1970

PUBLISHED BY
THE SYNDICS OF THE CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London, N.W. 1
American Branch: 32 East 57th Street, New York, N.Y. 10022

Printed in Great Britain at the University Printing House, Cambridge

Contents

PART 1—JULY 1970

	PAGE
The cytoarchitecture of somatic sensory-motor cortex in the opossum (<i>Didelphis marsupialis virginiana</i>): a Golgi study. By T. MYRICK WALSH and FORD F. EBNER	1
Mapping of rabbit olfactory cells. By B. D. MULVANEY and H. E. HEIST	19
<i>In vivo</i> observations on mature myelinated nerve fibres of the mouse. By P. L. WILLIAMS and SUSAN M. HALL	31
The lymphatics of the endometrium in the rabbit. By J. M. MCLEAN and R. J. SCOTHORNE	39
Mucin biosynthesis by chick and human oesophagus during ontogenetic metaplasia. By N. K. MOTTET	49
Microscopic structure of pyloric epithelium of the cat. By F. R. JOHNSON and R. M. H. MCMINN	67
The traffic of cells through tissues: a study of peripheral lymph in sheep. By J. B. SMITH, G. H. MCINTOSH and BEDE MORRIS	87
Some observations on the fine structure of the guinea-pig taenia coli after incubation in hypertonic solution. By HIDENORI NISHIHARA	101
Ultrastructure of granules in the submaxillary gland of the guinea-pig. By P. F. HEAP and K. D. BHOOLA	115
Fine structure of bulbar end of human foetal hair follicle at stage of differentiation of inner root sheath. By E. J. ROBINS and A. S. BREATHNACH	131
The production of torque during axial rotation of the trunk. By D. W. GRIEVE and A. W. ARNOTT	147
Oögenesis and the development of the ovarian interstitial tissue in the ferret. By RUTH DEANESLY	165
PROCEEDINGS OF THE ANATOMICAL SOCIETY OF GREAT BRITAIN AND IRELAND, FEBRUARY 1970	179

PART 2—SEPTEMBER 1970

Localization in the dorsal motor nucleus of the vagus in the rat. By P. R. LEWIS, J. A. SCOTT and V. NAVARATNAM	197
A histochemical study of adenosine triphosphatase in neuroglia. By S. D. A. FERNANDO and MICHAEL J. BLUNT	209
An experimental study of the origin and the course of the centrifugal fibres to the olfactory bulb in the rat. By J. L. PRICE and T. P. S. POWELL	215

	PAGE
The afferent connexions of the nucleus of the horizontal limb of the diagonal band. By J. L. PRICE and T. P. S. POWELL	239
Studies on the fine structure of the capsular region of tortoise muscle spindles. By ALAN CROWE and ABDUL H. M. F. RAGAB	257
The development of the intrinsic innervation of the human heart between the 10 and 70 mm stages. By R. B. SMITH	271
Ultrastructure of cells in the human bronchial submucosal glands. By BARBARA MEYRICK and LYNNE REID	281
Ultrastructural analysis of hepatic haematopoiesis in the foetal mouse. By R. O. JONES	301
The trophoblastic knobs of the preimplanted rabbit blastocyst: a light and electron microscopic study. By H. W. STEER	315
The origin of intramural ganglia. III. The 'vagal' source of enteric ganglion cells. By ANN ANDREW	327
Fine structure of juvenile human nucleus pulposus. By G. MEACHIM and M. S. CORNAH	337
Banded structures in the matrix of human and rabbit nucleus pulposus. By M. S. CORNAH, G. MEACHIM and E. W. PARRY	351
BOOK REVIEWS	363
BOOKS RECEIVED	371
PROCEEDINGS OF THE ANATOMICAL SOCIETY OF GREAT BRITAIN AND IRELAND, APRIL 1970	373

PART 3 NOVEMBER 1970

An experimental study of subcortical projections of the nucleus ventralis anterior in the cat. By W. W. Kaelber	399
The distribution of ³ H-noradrenaline and acetylcholinesterase (AChE) proximal to constrictions of hypogastric and splenic nerves in the cat. By J. D. LEVER, T. L. B. SPRIGGS, J. D. P. GRAHAM and CAROLINE IVENS	407
Cytokinetics of neonatal brain cell development in rats as studied by the 'complete ³ H-thymidine labelling' method. By R. J. HAAS, J. WERNER and T. M. FLIEDNER	421
The range and power of ulnar and radial deviation of the fingers. By A. B. MATHESON, D. C. SINCLAIR and W. G. SKENE	439
The longitudinal division of fibres in overloaded rat skeletal muscle. By E. C. HALL-CRAGGS	459
Maxillary development and growth: the septo-premaxillary ligament. By R. A. LATHAM	471
An analysis of self-differentiation of chick limb buds in chorio-allantoic grafts. By SARAH J. BRADLEY	479

2	Secretory immunoglobulin in columnar epithelial cells of the large intestine. By G. C. SCHOFIELD and A. M. ATKINS	491
2	Some electron microscope observations on the mesenchymal structures of full-term umbilical cord. By E. W. PARRY	505
1	Mucosal architecture and epithelial cell production rate in the small intestine of the albino rat. By RUFUS M. CLARKE	519
1	An attempt to visualize protein transmission across the rabbit visceral yolk- sac. By BRIAN S. SLADE	531
	Destruction and regeneration of skeletal muscle after treatment with a local anaesthetic, bupivacaine (Marcaine®). By PETER W. BENOIT and W. DUANE BELT	547
7	Trigeminothalamic fibre connexions in the dog and the pig. An experimental study with the retrograde cell degeneration method. By S. MICHAIL and A. N. KARAMANLIDIS	557
6	³⁵ S-sulphate uptake by the growing tibia in the domestic fowl. By A. M. LUTFI	567
8	BOOK REVIEWS	577
1	INDEX	579

